

file hcaplu

'HCAPLUS' ENTERED AT 12:10:51 ON 26 SEP 2005

IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

EASE SEE "HELP USAGETERMS" FOR DETAILS.

YPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

pyright of the articles to which records in this database refer is
ld by the publishers listed in the PUBLISHER (PB) field (available
r records published or updated in Chemical Abstracts after December
, 1996), unless otherwise indicated in the original publications.
e CA Lexicon is the copyrighted intellectual property of the
e American Chemical Society and is provided to assist you in searching
tabases on STN. Any dissemination, distribution, copying, or storing
this information, without the prior written consent of CAS, is
rictly prohibited.

LE COVERS 1907 - 26 Sep 2005 VOL 143 ISS 14

LE LAST UPDATED: 25 Sep 2005 (20050925/ED)

w CAS Information Use Policies, enter HELP USAGETERMS for details.

his file contains CAS Registry Numbers for easy and accurate
ubstance identification.

d que 116

- 7 SEA FILE=REGISTRY ABB=ON (7429-90-5/BI OR 7439-89-6/BI OR
7439-95-4/BI OR 7440-02-0/BI OR 7440-32-6/BI OR 7440-48-4/BI
OR 7440-50-8/BI)
- 131213 SEA FILE=HCAPLUS ABB=ON (MOLTEN? OR MELT?) (2A) (MATERIAL? OR
METAL? OR L2 OR AL OR ALUMINUM OR ALUMINIUM OR NICKEL OR NI OR
COBALT OR CO OR FE OR IRON OR TI OR TITANIUM OR COPPER OR CU
OR MG OR MAGNESIUM)
- 370 SEA FILE=HCAPLUS ABB=ON L4 AND (NANO?(2A) (?PARTICLE? OR
GRAIN# OR SIZE?) OR NANOSIZE? OR NANOPART?)
- 74 SEA FILE=HCAPLUS ABB=ON L5 AND (DISPERS? OR INCORPORAT?)
- 9 SEA FILE=HCAPLUS ABB=ON L5 AND (VORTEX OR CONVECTION? OR
ROTAT?)
- 37 SEA FILE=HCAPLUS ABB=ON L4 AND (NANO?(2A) (?PARTICLE? OR
GRAIN# OR SIZE?) OR NANOSIZE? OR NANOPART?) (3A) (DISPERS? OR
INCORPORAT?)
- 26 SEA FILE=HCAPLUS ABB=ON L9 AND METAL?/SC,SX
- 17 SEA FILE=HCAPLUS ABB=ON L9 AND COMPOSITE?
- 11 SEA FILE=HCAPLUS ABB=ON L10 AND L11
- 1 SEA FILE=HCAPLUS ABB=ON L5 AND ROTAR?
- 19 SEA FILE=HCAPLUS ABB=ON L8 OR L12 OR L13
- 1 SEA FILE=HCAPLUS ABB=ON L7 AND EJECT?
- 19 SEA FILE=HCAPLUS ABB=ON L14 OR L15

file wpix

FILE 'WPIX' ENTERED AT 12:11:01 ON 26 SEP 2005

OPYRIGHT (C) 2005 THE THOMSON CORPORATION

FILE LAST UPDATED: 23 SEP 2005 <20050923/UP>

OST RECENT DERWENT UPDATE: 200561 <200561/DW>

ERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

>> FOR A COPY OF THE DERWENT WORLD PATENTS INDEX STN USER GUIDE,
PLEASE VISIT:

KATHLEEN FULLER EIC1700 REMSEN 4B28 571/272-2505

Best Available Copy

http://www.stn-international.de/training_center/patents/stn_guide.pdf <<<

FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES, SEE
<http://thomsonderwent.com/coverage/latestupdates/> <<<

FOR INFORMATION ON ALL DERWENT WORLD PATENTS INDEX USER
 GUIDES, PLEASE VISIT:
<http://thomsonderwent.com/support/userguides/> <<<

NEW! FAST-ALERTING ACCESS TO NEWLY-PUBLISHED PATENT
 DOCUMENTATION NOW AVAILABLE IN DERWENT WORLD PATENTS INDEX
 FIRST VIEW - FILE WPIFV.
 FOR FURTHER DETAILS: <http://www.thomsonderwent.com/dwpifv> <<<

THE CPI AND EPI MANUAL CODES HAVE BEEN REVISED FROM UPDATE 200501.
 PLEASE CHECK:
<http://thomsonderwent.com/support/dwpieref/reftools/classification/code-revision/>
 FOR DETAILS. <<<

d que 122

- 7 SEA FILE=REGISTRY ABB=ON (7429-90-5/BI OR 7439-89-6/BI OR 7439-95-4/BI OR 7440-02-0/BI OR 7440-32-6/BI OR 7440-48-4/BI OR 7440-50-8/BI)
- 131213 SEA FILE=HCAPLUS ABB=ON (MOLTEN? OR MELT?) (2A) (MATERIAL? OR METAL? OR L2 OR AL OR ALUMINUM OR ALUMINIUM OR NICKEL OR NI OR COBALT OR CO OR FE OR IRON OR TI OR TITANIUM OR COPPER OR CU OR MG OR MAGNESIUM)
- 370 SEA FILE=HCAPLUS ABB=ON L4 AND (NANO?(2A) (?PARTICLE? OR GRAIN# OR SIZE?) OR NANOSIZE? OR NANOPART?)
- 42 SEA FILE=WPIX ABB=ON L5 AND (DISPERS? OR INCORPORAT?)
- 3 SEA FILE=WPIX ABB=ON L17 AND (VORTEX OR CONVECTION OR ROTAT? OR ROTAR? OR EJECT?)
- 5 SEA FILE=WPIX ABB=ON L17 AND B22F?/IC
- 13 SEA FILE=WPIX ABB=ON L17 AND COMPOSITE?
- 7 SEA FILE=WPIX ABB=ON L20 NOT (C OR CARBON) (1A) (?FIBER? OR ?FIBRE?)
- 13 SEA FILE=WPIX ABB=ON L18 OR L19 OR L21

file metadex

LE 'METADEX' ENTERED AT 12:11:15 ON 26 SEP 2005
 PYRIGHT (c) 2005 Cambridge Scientific Abstracts (CSA)

LE LAST UPDATED: 19 SEP 2005 <20050919/UP>
 LE COVERS 1966 TO DATE.

> SIMULTANEOUS LEFT AND RIGHT TRUNCATION AVAILABLE IN THE
 BASIC INDEX (/BI) <<<

d que 131

- 7 SEA FILE=REGISTRY ABB=ON (7429-90-5/BI OR 7439-89-6/BI OR 7439-95-4/BI OR 7440-02-0/BI OR 7440-32-6/BI OR 7440-48-4/BI OR 7440-50-8/BI)
- 131213 SEA FILE=HCAPLUS ABB=ON (MOLTEN? OR MELT?) (2A) (MATERIAL? OR METAL? OR L2 OR AL OR ALUMINUM OR ALUMINIUM OR NICKEL OR NI OR COBALT OR CO OR FE OR IRON OR TI OR TITANIUM OR COPPER OR CU OR MG OR MAGNESIUM)
- 370 SEA FILE=HCAPLUS ABB=ON L4 AND (NANO?(2A) (?PARTICLE? OR GRAIN# OR SIZE?) OR NANOSIZE? OR NANOPART?)
- 22 SEA FILE=METADEX ABB=ON L5 AND (DISPERS? OR INCORPORAT?)

1 SEA FILE=METADEX ABB=ON L23 AND (VORTEX OR CONVECTION OR
EJECT? OR ROTAT? OR ROTAR?)
42975 SEA FILE=METADEX ABB=ON COMPOSITE MATERIALS+NT/CT
6 SEA FILE=METADEX ABB=ON L23 AND L25
2140 SEA FILE=METADEX ABB=ON MELT SPINNING+NT/CT
2 SEA FILE=METADEX ABB=ON L23 AND L27
6293 SEA FILE=METADEX ABB=ON NANOMATERIALS+NT/CT
7 SEA FILE=METADEX ABB=ON L23 AND L29
11 SEA FILE=METADEX ABB=ON L24 OR L26 OR L28 OR L30

file ema

E 'EMA' ENTERED AT 12:11:29 ON 26 SEP 2005
YRIGHT (C) 2005 Cambridge Scientific Abstracts (CSA)

E LAST UPDATED: 16 SEP 2005 <20050916/UP>
E COVERS 1986 TO DATE.

d que 135

7 SEA FILE=REGISTRY ABB=ON (7429-90-5/BI OR 7439-89-6/BI OR
7439-95-4/BI OR 7440-02-0/BI OR 7440-32-6/BI OR 7440-48-4/BI
OR 7440-50-8/BI)
131213 SEA FILE=HCAPLUS ABB=ON (MOLTEN? OR MELT?) (2A) (MATERIAL? OR
METAL? OR L2 OR AL OR ALUMINUM OR ALUMINIUM OR NICKEL OR NI OR
COBALT OR CO OR FE OR IRON OR TI OR TITANIUM OR COPPER OR CU
OR MG OR MAGNESIUM)
370 SEA FILE=HCAPLUS ABB=ON L4 AND (NANO? (2A) (?PARTICLE? OR
GRAIN# OR SIZE?) OR NANOSIZE? OR NANOPART?)
3 SEA FILE=EMA ABB=ON L5 AND (DISPERS? OR INCORPORAT?)
0 SEA FILE=EMA ABB=ON L32 AND (VORTEX OR CONVECTION OR EJECT?
OR ROTAT? OR ROTAR?)
0 SEA FILE=EMA ABB=ON L32 AND SPIN?
0 SEA FILE=EMA ABB=ON L33 OR L34

file jicst

E 'JICST-EPLUS' ENTERED AT 12:11:50 ON 26 SEP 2005
YRIGHT (C) 2005 Japan Science and Technology Agency (JST)

E COVERS 1985 TO 19 SEP 2005 (20050919/ED)

JICST-EPLUS FILE HAS BEEN RELOADED TO REFLECT THE 1999 CONTROLLED
M (/CT) THESAURUS RELOAD.

d que 136

7 SEA FILE=REGISTRY ABB=ON (7429-90-5/BI OR 7439-89-6/BI OR
7439-95-4/BI OR 7440-02-0/BI OR 7440-32-6/BI OR 7440-48-4/BI
OR 7440-50-8/BI)
131213 SEA FILE=HCAPLUS ABB=ON (MOLTEN? OR MELT?) (2A) (MATERIAL? OR
METAL? OR L2 OR AL OR ALUMINUM OR ALUMINIUM OR NICKEL OR NI OR
COBALT OR CO OR FE OR IRON OR TI OR TITANIUM OR COPPER OR CU
OR MG OR MAGNESIUM)
370 SEA FILE=HCAPLUS ABB=ON L4 AND (NANO? (2A) (?PARTICLE? OR
GRAIN# OR SIZE?) OR NANOSIZE? OR NANOPART?)
3 SEA FILE=EMA ABB=ON L5 AND (DISPERS? OR INCORPORAT?)
3 SEA FILE=JICST-EPLUS ABB=ON L32 AND (VORTEX OR CONVECTION OR
EJECT? OR ROTAT? OR ROTAR?)

file ntis

ERSKI 10/613908 09/26/2005

Page 4

NTIS' ENTERED AT 12:12:00 ON 26 SEP 2005
led and distributed by the NTIS, U.S. Department of Commerce.
ntains copyrighted material.
ights reserved. (2005)

LAST UPDATED: 26 SEP 2005 <20050926/UP>
COVERS 1964 TO DATE.

IMULTANEOUS LEFT AND RIGHT TRUNCATION AVAILABLE IN
HE BASIC INDEX (/BI) >>>

que 137

7 SEA FILE=REGISTRY ABB=ON (7429-90-5/BI OR 7439-89-6/BI OR
7439-95-4/BI OR 7440-02-0/BI OR 7440-32-6/BI OR 7440-48-4/BI
OR 7440-50-8/BI)
131213 SEA FILE=HCAPLUS ABB=ON (MOLTEN? OR MELT?) (2A) (MATERIAL? OR
METAL? OR L2 OR AL OR ALUMINUM OR ALUMINIUM OR NICKEL OR NI OR
COBALT OR CO OR FE OR IRON OR TI OR TITANIUM OR COPPER OR CU
OR MG OR MAGNESIUM)
370 SEA FILE=HCAPLUS ABB=ON L4 AND (NANO?(2A) (?PARTICLE? OR
GRAIN# OR SIZE?) OR NANOSIZE? OR NANOPART?)
3 SEA FILE=EMA ABB=ON L5 AND (DISPERS? OR INCORPORAT?)
0 SEA FILE=NTIS ABB=ON L32 AND (VORTEX OR CONVECTION OR EJECT?
OR ROTAT? OR ROTAR?)

up rem l16 l22 l31 l36

'HCAPLUS' ENTERED AT 12:12:27 ON 26 SEP 2005
IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
SE SEE "HELP USAGETERMS" FOR DETAILS.
RIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

'WPIX' ENTERED AT 12:12:27 ON 26 SEP 2005
RIGHT (C) 2005 THE THOMSON CORPORATION

'METADEX' ENTERED AT 12:12:27 ON 26 SEP 2005
RIGHT (c) 2005 Cambridge Scientific Abstracts (CSA)

'JICST-EPLUS' ENTERED AT 12:12:27 ON 26 SEP 2005
RIGHT (C) 2005 Japan Science and Technology Agency (JST)
ESSING COMPLETED FOR L16
ESSING COMPLETED FOR L22
ESSING COMPLETED FOR L31
ESSING COMPLETED FOR L36

44 DUP REM L16 L22 L31 L36 (2 DUPLICATES REMOVED)

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☒ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.